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Attorney's Docket No.: 07917-110001 / (UMMC 00-21) Ho - MT-Rzs

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Shuk-Mei Ho et al. Art Unit : 1744
Serial No. : 10/033,024 Examiner : Unknown
Filed : October 31, 2001
Title : APOPTOSIS-INDUCING RIBOZYMES

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PRELIMINARY AMENDMENT

In response to the communication dated March 25, 2002 (copy enclosed), applicants submit herewith a Sequence Listing in computer-readable form as required by 37 CFR §1.824. In addition, applicants submit an initial Sequence Listing as required under 37 CFR §1.823(a) and a statement under 37 CFR §1.821(f).

Applicants respectfully request entry of the paper copy and computer-readable copy of the Sequence Listing filed herewith for the instant application. Furthermore, applicants request entry of the following amendments.

In the specification:

Insert the paper copy of the Sequence Listing filed herewith following the Oath/Declaration.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1 8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the U S Patent and Trademark Office, P.O. Box 2327, Arlington, VA 22202.

June 25, 2002
Date of Deposit

Signature

Typed or Printed Name of Person Signing Certificate

Replace the paragraph beginning at page 29, line 9, with the following rewritten paragraph:

--All PCR conditions were optimized for quantification of relative message contents under non-saturating conditions. Hot-start PCR using AmpliTaq Gold™ DNA polymerase (Perkin-Elmer) was used in all the amplification reactions. The enzyme was activated by pre-heating the reaction mixtures at 95°C for 8 minutes prior to PCR. Primer sequences and PCR conditions for MT-IIa and 18S ribosomal RNA were as follows. For MT-IIa cDNA amplification, forward primer was 5'-CAACCTGTCCCGACTCTAGCC-3' (SEQ ID NO:17) (nt 21 – 41) and the reverse primer was 5'-GGTCACGGTCAGGGTTGTAC-3' (SEQ ID NO:18) (nt 306-325). PCR was carried out under standard conditions with 30 cycles of denaturing (95°C for 1 minute), annealing (55°C for 1 minute) and extension (72°C for 2 minutes), to amplify a 300 bp fragment corresponding to the MT-IIa mRNA. For amplification of the 18S ribosomal RNA, the forward primer was 5'-TGA GGC CAT GAT TAA GAG GG-3' (SEQ ID NO:19) as the sense primer and 5'-CGC TGA GCC AGT CAG TGTAG-3'(SEQ ID NO:20) as the anti-sense primer to amplify a 623 bp 3' fragment under PCR conditions similar to that of those used for MT-IIa cDNA amplification, except that it was carried out for 20 cycles at an annealing temperature of 60°C.--

In the Drawings:

Substitute the enclosed 19 sheets of formal drawings for the original informal drawings.

REMARKS

Applicants hereby submit that the enclosures fulfill the requirements under 37 C.F.R. §1.821-1.825. The amendments in the specification merely insert the paper copy of the Sequence Listing and sequence identifiers in the specification, and replace the informal drawings with formal drawings. No new matter has been added.

Attached hereto is a marked-up version of the changes made to the specification by the current amendment.

Please apply any charges or credits to Deposit Account No. 06-1050, referencing attorney docket number 07917-110001.

Respectfully submitted,

Date: June 25, 2002

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"Version With Markings to Show Changes Made"

In the specification:

Paragraph beginning at page 29, line 9, has been amended as follows:

All PCR conditions were optimized for quantification of relative message contents under non-saturating conditions. Hot-start PCR using AmpliTaq Gold™ DNA polymerase (Perkin-Elmer) was used in all the amplification reactions. The enzyme was activated by pre-heating the reaction mixtures at 95°C for 8 minutes prior to PCR. Primer sequences and PCR conditions for MT-IIa and 18S ribosomal RNA were as follows. For MT-IIa cDNA amplification, forward primer was 5'-CAACCTGTCCCGACTCTAGCC-3' (SEQ ID NO:17) (nt 21 – 41) and the reverse primer was 5'-GGTCACGGTCAGGGTTGTAC-3' (SEQ ID NO:[17] 18) (nt 306-325). PCR was carried out under standard conditions with 30 cycles of denaturing (95°C for 1 minute), annealing (55°C for 1 minute) and extension (72°C for 2 minutes), to amplify a 300 bp fragment corresponding to the MT-IIa mRNA. For amplification of the 18S ribosomal RNA, the forward primer was 5'-TGA GGC CAT GAT TAA GAG GG-3' (SEQ ID NO:19) as the sense primer and 5'-CGC TGA GCC AGT CAG TGTAG-3'(SEQ ID NO:20) as the anti-sense primer to amplify a 623 bp 3' fragment under PCR conditions similar to that of those used for MT-IIa cDNA amplification, except that it was carried out for 20 cycles at an annealing temperature of 60°C.